

Sequence Listing

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<400> 85
Tyr Pro His Tyr Tyr Val Asn Glu Arg Lys Ser His Trp Tyr Phe
1 5 10 15

Asp Val
17

<210> 86
<211> 17
<212> PRT
<213> artificial sequence

<220>
 <221> artificial
 <222> 1-17
 <223> variant CDR sequence

 <400> 86
 Tyr Pro His Tyr Tyr Leu Thr Asp His Lys Ser His Trp Tyr Phe
 1 5 10 15

 Asp Val
 17

 <210> 87
 <211> 18
 <212> PRT
 <213> artificial sequence

 <220>
 <221> artificial
 <222> 1-18
 <223> variant CDR sequence

 <400> 87
 Tyr Pro His Tyr Tyr Leu Lys Asp Gly Lys Lys Ser His Trp Tyr
 1 5 10 15

 Phe Asp Val
 18

 <210> 88
 <211> 17
 <212> PRT
 <213> artificial sequence

 <220>
 <221> artificial
 <222> 1-17
 <223> variant CDR sequence

 <400> 88
 Tyr Pro His Tyr Tyr Arg Arg Asp Lys Lys Ser His Trp Tyr Phe
 1 5 10 15

 Asp Val
 17

 <210> 89
 <211> 17
 <212> PRT
 <213> artificial sequence

 <220>
 <221> artificial
 <222> 1-17
 <223> variant CDR sequence

<400> 89

Tyr Pro His Tyr Tyr Leu Lys Asp Lys Lys Ser His Trp Tyr Phe
1 5 10 15

Asp Val
17

<210> 90

<211> 17

<212> PRT

<213> artificial sequence

<220>

<221> artificial

<222> 1-17

<223> variant CDR sequence

<400> 90

Tyr Pro His Tyr Tyr Leu His Asp Arg Lys Ser His Trp Tyr Phe
1 5 10 15

Asp Val
17

<210> 91

<211> 17

<212> PRT

<213> artificial sequence

<220>

<221> artificial

<222> 1-17

<223> variant CDR sequence

<400> 91

Tyr Pro His Tyr Tyr Leu Ser Asp Lys Lys Ser His Trp Tyr Phe
1 5 10 15

Asp Val
17

<210> 92

<211> 17

<212> PRT

<213> artificial sequence

<220>

<221> artificial

<222> 1-17

<223> variant CDR sequence

<400> 92

Tyr Pro His Tyr Tyr Val Asn Glu Arg Lys Ser His Trp Tyr Phe
1 5 10 15

Asp Val
17

<210> 93
 <211> 45
 <212> DNA
 <213> artificial sequence

<220>
 <221> artificial
 <222> 1-45
 <223> mutagenesis oligo

<400> 93
 taccgcact attatgtgaa cgagcggaag agccactggt atttc 45

<210> 94
 <211> 110
 <212> PRT
 <213> artificial sequence

<220>
 <221> artificial
 <222> 1-110
 <223> humanized antibody light chain variable domain

<400> 94
 Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val
 1 5 10 15
 Gly Asp Arg Val Thr Ile Thr Cys Ser Ala Ser Gln Asp Ile Ser
 20 25 30
 Asn Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys
 35 40 45
 Val Leu Ile Tyr Phe Thr Ser Ser Leu His Ser Gly Val Pro Ser
 50 55 60
 Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile
 65 70 75
 Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln
 80 85 90
 Tyr Ser Thr Val Pro Trp Thr Phe Gly Gln Gly Thr Lys Val Glu
 95 100 105
 Ile Lys Arg Thr Val
 110

<210> 95
 <211> 110
 <212> PRT
 <213> artificial sequence

<220>
 <221> artificial
 <222> 1-110
 <223> humanized antibody light chain variable domain

<400> 95

Asp	Ile	Gln	Leu	Thr	Gln	Ser	Pro	Ser	Ser	Leu	Ser	Ala	Ser	Val
1				5					10					15

Gly	Asp	Arg	Val	Thr	Ile	Thr	Cys	Arg	Ala	Asn	Glu	Gln	Leu	Ser
				20					25					30

Asn	Tyr	Leu	Asn	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Lys	Ala	Pro	Lys
				35					40					45

Val	Leu	Ile	Tyr	Phe	Thr	Ser	Ser	Leu	His	Ser	Gly	Val	Pro	Ser
				50					55					60

Arg	Phe	Ser	Gly	Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Thr	Ile
				65					70					75

Ser	Ser	Leu	Gln	Pro	Glu	Asp	Phe	Ala	Thr	Tyr	Tyr	Cys	Gln	Gln
				80					85					90

Tyr	Ser	Thr	Val	Pro	Trp	Thr	Phe	Gly	Gln	Gly	Thr	Lys	Val	Glu
				95					100					105

Ile	Lys	Arg	Thr	Val
				110

<210> 96

<211> 118

<212> PRT

<213> artificial sequence

<220>

<221> artificial

<222> 1-118

<223> humanized antibody heavy chain variable domain

<400> 96

Glu	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly
1				5					10					15

Gly	Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Tyr	Thr	Phe	Thr
				20					25					30

Asn	Tyr	Gly	Met	Asn	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu
				35					40					45

Glu	Trp	Val	Gly	Trp	Ile	Asn	Thr	Tyr	Thr	Gly	Glu	Pro	Thr	Tyr
				50					55					60

Ala	Ala	Asp	Phe	Lys	Arg	Arg	Phe	Thr	Phe	Ser	Leu	Asp	Thr	Ser
				65					70					75

Lys	Ser	Thr	Ala	Tyr	Leu	Gln	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp
				80					85					90

Thr	Ala	Val	Tyr	Tyr	Cys	Ala	Lys	Tyr	Pro	His	Tyr	Tyr	Gly	Ser
				95					100					105

Ser His Trp Tyr Phe Asp Val Trp Gly Gln Gly Thr Leu
110 115 118

<210> 97
<211> 118
<212> PRT
<213> artificial sequence

<220>
<221> artificial
<222> 1-118
<223> humanized antibody heavy chain variable domain

<400> 97
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly
1 5 10 15
Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Tyr Asp Phe Thr
20 25 30
His Tyr Gly Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
35 40 45
Glu Trp Val Gly Trp Ile Asn Thr Tyr Thr Gly Glu Pro Thr Tyr
50 55 60
Ala Ala Asp Phe Lys Arg Arg Phe Thr Phe Ser Leu Asp Thr Ser
65 70 75
Lys Ser Thr Ala Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp
80 85 90
Thr Ala Val Tyr Tyr Cys Ala Lys Tyr Pro His Tyr Tyr Gly Ser
95 100 105
Ser His Trp Tyr Phe Asp Val Trp Gly Gln Gly Thr Leu
110 115 118

<210> 98
<211> 121
<212> PRT
<213> artificial sequence

<220>
<221> artificial
<222> 1-121
<223> humanized antibody heavy chain variable domain

<400> 98
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly
1 5 10 15
Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Tyr Thr Phe Thr
20 25 30
Asn Tyr Gly Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
35 40 45

Glu Trp Val Gly Trp Ile Asn Thr Tyr Thr Gly Glu Pro Thr Tyr
 50 55 60
 Ala Ala Asp Phe Lys Arg Arg Phe Thr Phe Ser Leu Asp Thr Ser
 65 70 75
 Lys Ser Thr Ala Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp
 80 85 90
 Thr Ala Val Tyr Tyr Cys Ala Lys Tyr Pro His Tyr Tyr Val Asn
 95 100 105
 Glu Arg Lys Ser His Trp Tyr Phe Asp Val Trp Gly Gln Gly Thr
 110 115 120

Leu
 121

<210> 99
 <211> 121
 <212> PRT
 <213> artificial sequence

<220>
 <221> artificial
 <222> 1-121
 <223> humanized antibody heavy chain variable domain

<400> 99
 Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly
 1 5 10 15
 Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Tyr Asp Phe Thr
 20 25 30
 His Tyr Gly Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
 35 40 45
 Glu Trp Val Gly Trp Ile Asn Thr Tyr Thr Gly Glu Pro Thr Tyr
 50 55 60
 Ala Ala Asp Phe Lys Arg Arg Phe Thr Phe Ser Leu Asp Thr Ser
 65 70 75
 Lys Ser Thr Ala Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp
 80 85 90
 Thr Ala Val Tyr Tyr Cys Ala Lys Tyr Pro His Tyr Tyr Val Asn
 95 100 105
 Glu Arg Lys Ser His Trp Tyr Phe Asp Val Trp Gly Gln Gly Thr
 110 115 120

Leu
 121